

TABLE OF CONTENTS

	<u>Page</u>
SUMMARY	S-1
CHAPTER 1: INTRODUCTION	1-1
Purpose of and Need for Action.....	1-2
Authorizing Actions	1-6
Public Scoping.....	1-6
CHAPTER 2: DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES.....	2-1
Introduction.....	2-1
Proposed Action	2-1
Substation Modification.....	2-1
Transmission Line and Collector Substation	2-1
Windfarm.....	2-10
Environmental Protection Measures.....	2-18
Project Alternatives.....	2-21
No Action Alternatives	2-21
Alternatives Considered but Eliminated from Detailed Analysis	2-22
CHAPTER 3: AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES	3-1
Introduction.....	3-1
Physical Resources.....	3-2
Geology and Soil.....	3-2
Air Resources	3-8
Water Resources.....	3-9
Biological Resources	3-10
Vegetation.....	3-10
Wetlands	3-15
Wildlife.....	3-17
Threatened, Endangered, Proposed, and Sensitive Species.....	3-20
Social Resources	3-21
Socioeconomics	3-21
Environmental Justice	3-22
Land Use.....	3-23
Visual Resources	3-25
Noise	3-27
Safety and Health Issues	3-28
Recreation	3-31
Cultural Resources	3-32
Native American Religious Concerns	3-36
Cumulative Effects	3-38
Past and Present.....	3-38
Reasonably Foreseeable Future	3-38

TABLE OF CONTENTS (continued)

	<u>Page</u>
CHAPTER 4: AGENCIES/PERSONS CONSULTED	4-1
CHAPTER 5: REFERENCES.....	5-1

LIST OF FIGURES

FIGURE 1-1 Location Map.....	1-3
FIGURE 2-1 Site Map	2-3
FIGURE 2-2 Typical Pad Mounted Transformer	2-4
FIGURE 2-3 Typical Transmission Structure	2-5
FIGURE 2-4 Basic Wire-Handling Equipment	2-11
FIGURE 2-5 Proposed Windfarm Layout.....	2-13
FIGURE 2-6 Schematic of Typical Wind Turbine.....	2-15
FIGURE 3-1 Site Map and Proposed Project Components	3-3
FIGURE 3-2 Project Area and Wetlands.....	3-5
FIGURE 3-3 Land Use/Land Cover	3-13

LIST OF TABLES

TABLE 1-1 Project Proponents.....	1-2
TABLE 1-2 Permit/Authorizing Responsibilities	1-7
TABLE 1-3 Scoping Summary	1-7
TABLE 2-1 Transmission Line Design Characteristics	2-10
TABLE 3-1 Landcover Types (USFWS 2001a) Within the Study Area	3-12

LIST OF APPENDICES

- APPENDIX A Photo Series of Typical Turbine Construction**
- APPENDIX B Western Construction Standards, Standard 13, Environmental Quality Protection**
- APPENDIX C Summary of Wildlife Species**